

IN THE CLAIMS

Please cancel claims 2 and 3.

Please amend claims 1 and 7 and add new claim 9 as follows:

1. (Currently Amended) A bearing with a noncontact signal transfer mechanism transmitting a signal from a rotary shaft to a fixed shaft, comprising:

a power generation circuit generating power between said rotary shaft and said fixed shaft, said power generation circuit comprising a power feed coil wound around a yoke provided at said fixed shaft, and a power receiving coil wound around a yoke provided at said rotary shaft, wherein a magnetic path is formed between the yoke of said fixed shaft and the yoke of said rotary shaft to provide a current flow to said power receiving coil, and

a signal transfer circuit configured to be responsive to the power generated by said power generation circuit to transferring transfer a signal from said rotary shaft to said fixed shaft ~~based on the power generated by said power generation circuit,~~

a power supply circuit for supplying an alternating current to said power feed coil, and

a power receiving circuit for receiving said alternating current through said power receiving coil to rectify the received current for a sensor.

Claims 2-3 (Cancelled)

4. (Original) The bearing with a noncontact signal transfer mechanism according to claim 1, wherein said signal transfer circuit comprises

a transmission coil wound around a yoke of said rotary shaft to transmit a signal, and

a reception coil wound around a yoke of said fixed shaft,

wherein a magnetic path is formed between the yoke of said rotary shaft and the yoke of said fixed shaft to deliver to said reception coil a signal corresponding to the signal to said transmission coil.

5. (Original) The bearing with a noncontact signal transfer mechanism according to claim 1, wherein said signal transfer circuit comprises
a transmission coil wound around a yoke of said rotary shaft to transmit a signal, and
a magnetic detection element provided at said fixed shaft facing said transmission coil to detect change in a magnetic force of the transmission coil.

6. (Original) The bearing with a noncontact signal transfer mechanism according to claim 1, wherein said signal transfer circuit comprises
a light emitting element provided at said rotary shaft to emit light according to a signal,
and
a light receiving element provided at said fixed shaft facing said light emitting element to receive light from said light emitting element.

7. (Currently Amended) The bearing with a noncontact signal transfer mechanism according to claim 1, wherein said signal transfer circuit comprises
a transmission circuit provided at said rotary shaft to transmit a signal ~~through~~ by radio waves, and
a reception circuit provided at said fixed shaft to receive a signal transmitted from said transmission circuit ~~through radio~~.

8. (Original) The bearing with a noncontact signal transfer mechanism according to claim 1, wherein said fixed shaft is an outer ring and said rotary shaft is an inner ring,

wherein a rolling element is provided between said outer ring and said inner ring.

9. (New) A bearing with a noncontact signal transfer mechanism transmitting a signal from a rotary shaft to a fixed shaft, comprising:

a power generation circuit generating power between said rotary shaft and said fixed shaft, and

a signal transfer circuit configured to be responsive to the power generated by said power generation circuit to transfer a signal from said rotary shaft to said fixed shaft,

wherein said signal transfer circuit comprises

a transmission circuit provided at said rotary shaft to transmit a signal by radio waves, and

a reception circuit provided at said fixed shaft to receive a signal transmitted from said transmission circuit.